



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,130	11/14/2003	Yoshinori Tomita	450100-02029.1	9561

7590 01/04/2010
FROMMER LAWRENCE & HAUG, LLP.
745 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10151

EXAMINER

WERNER, DAVID N

ART UNIT	PAPER NUMBER
----------	--------------

2621

MAIL DATE	DELIVERY MODE
-----------	---------------

01/04/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/713,130	Applicant(s) TOMITA ET AL.	
	Examiner David N. Werner	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11, 12, 14-17, 19-24, 35, 49-53, 55-58, 60-65 and 67-70 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11, 12, 14-17, 19-24, 35, 49-53, 58, 60-65 and 67-70 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office action for U.S. Patent Application 10/713,130 is responsive to the Request for Continued Examination filed 14 October 2009, in reply to the Final Rejection of 17 July 2009 and the Advisory Action of 23 September 2009. Currently, Claims 11, 12, 14–17, 19–24, 35, 49–53, 55–58, 60–65, and 67–70 are pending.

2. In the 17 July 2009 Office action, Claims 52, 53, 55–58, 62, 63, 67, 68, and 70 were rejected under 35 U.S.C. 101 as non-statutory. Claims 11, 12, 14–17, 19, 20, 23, 24, 35, 49–53, 55–58, 60, 61, 64, 65, and 67–70 were rejected under 35 U.S.C. 103(a) as obvious over U.S. Patent 6,111,604 A (*Hashimoto*) in view of U.S. Patent 6,148,031 A (*Kato*), U.S. Patent 5,987,179 A (*Riek*), and ISO/IEC 11172-1 (*MPEG-1* Part 1). Claims 21, 22, 62, and 63 were rejected under 35 U.S.C. 103(a) as obvious over *Hashimoto*, *Kato*, *Riek*, and *MPEG-1*, and in view of U.S. Patent 6,327,423 B1 (*Ejima*). In the 23 September 2003 Advisory Action, the claim rejections under 35 U.S.C. 101 were withdrawn.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 14 October 2009 has been entered.

Response to Arguments

4. Applicant's arguments with respect to claim 11 have been considered but are moot in view of the new ground(s) of rejection. Applicant has perfected foreign priority to Japanese application 98-00629303, filed 24 August 1998. This foreign priority document antedates *Wilt*, "The DV, DVCAM, & DVCPRO Formats", cited in the Advisory Action in support of the official notice statement of the Final Rejection. However, European Patent Application Publication 843,470 A1 (*Tanaka*), published 20 May 1998, also discloses locked audio.

5. Applicant's arguments with respect to claim 11 have been fully considered but they are unpersuasive. Applicant states that "nothing in the prior art shows, teaches, or suggests an apparatus or method encoding still picture data without audio data and a second encoding method encoding audio data with moving picture data or still picture data". However, as mentioned in the 17 July Final Rejection, the *Hashimoto* reference discloses producing an association file that may link image and audio files together. *Final Rejection*, page 6. The file may indicate information of "just a still image", or "still picture data without audio data" as claimed. *Hashimoto*, column 10: lines 1–2. The file may also store information of "the combination of a still image with audio data", or "still picture with audio data", as claimed. *Id.* at column 10: line 2. *Hashimoto* may also store information of "a series of images" or "moving images" in an MPEG format. *Id.* at

Art Unit: 2621

column 10: lines 3–4; column 6: line 65. MPEG was known to encode image data with multiplexed audio data. *MPEG-1*, §1-A.6.3. Thus, *Hashimoto* discloses all of the methods of encoding still picture data without audio, encoding audio data with moving picture data, or encoding audio data with still picture data. In the combination with the *Kato* and *Riek* references, the *Hashimoto* reference is modified to use a unified coding method for encoding audio data with moving picture data or still picture data.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 11, 12, 14–17, 19, 20, 23, 24, 35, 49–53, 55–58, 60, 61, 64, 65, and 67–70 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,111,604 A (*Hashimoto*) in view of US Patent 6,148,031 A (*Kato*), in view of US Patent 5,987,179 A (*Riek*), and in view of ISO/IEC 11172-1 (*MPEG-1 Part 1*). *Hashimoto* teaches a digital camera.

Regarding claims 11, 35, and 52, figure 8 of Hashimoto et al. shows a block diagram of the camera. Image photographing section 6 comprises lens 7, lens opening 8, imaging element 9, and filter 10. The analog input image signal is converted in analog/digital converter 4 and further processed in DSP 11 (column 6: lines 40-61). This is the claimed “photographing means”. Audio signals are input into microphone 1

Art Unit: 2621

and output through amplifier/filter 2a to analog/digital converter 4 (column 6: lines 18-26). This corresponds with the claimed "audio inputting means". Image data compression/expansion circuit 12 encodes the images from DSP 11 in a format such as JPEG or MPEG (column 6: line 62–column 7: line 2). This corresponds with the claimed "video encoding means" that performs the steps of "encoding the video signal" in the two encoding methods in claims 35 and 52. Figure 11 of Hashimoto et al. illustrates the process for capturing video and information. When the user presses the shutter button, a first picture with associated audio is captured. Image and audio files are stored in memory card 16, and a relation file is written to link the image and audio files together (column 9: lines 46-54). The relation file may be a container file for "just a still image", "a still image with audio data", or a moving image with audio data (column 10: lines 1-8). Then, *Hashimoto* discloses capturing picture data both with and without audio data, as claimed.

The present invention differs from Hashimoto et al. in that in the present invention, two encoding methods exist: a first mode encoding only still image data, and a second mode encoding audio data with still picture data or moving picture data comprising intra I frames and inter P or B frames. However, in Hashimoto et al., no clear distinction is made between various encoding modes for the recorded pictures. In the example given in column 9: line 55–column 10: line 4, audio may be associated with a still JPEG image, or a moving MJPEG image, or an MPEG image (column 6: line 65), which was known in the art at the time the invention was made to incorporate sound data. It appears that the list in column 10: lines 1–4 may disclose three distinct coding

Art Unit: 2621

modes: a still image without audio; a still image with audio; and a moving image, whereas the present invention presents a unified encoding method for still and moving images with audio.

Kato teaches an image processing system in a digital camera. Regarding claims 11 and 35, in Kato, in a continuous imaging mode, input images are initially recorded in real time in an intra mode as a succession of JPEG images, and stored in memory 20 (column 3: lines 41-47). In a still image mode, the input image is recorded in memory 20 as a single JPEG image (column 3: lines 47-53). After recording is finished, system control circuit 26 re-encodes the recorded series of intra images in an inter-frame compression mode (column 3: lines 54-63). This system control circuit corresponds with the claimed "controlling means" of claim 11, and the selection of a still image mode or a motion image mode in Kato corresponds with the claimed recording mode selection in claims 35 and 52.

Hashimoto et al. discloses a portion of the claimed invention, but not encoding pictures according to two different encoding methods. Kato teaches that it was known to encode motion image data in a separate format than still image data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the camera of Hashimoto et al. to re-encode pictures having a temporal aspect, such as pictures with associated sound, as inter-frame encoded images after encoding, as taught by Kato, since Kato states in column 2: lines 16-34 that such a modification would enable the final recording to be achieved with higher

compression than with intra pictures alone, while maintaining the ability for a user to record a high-quality still image during the motion image recording process.

The present invention differs from the combination of Hashimoto et al. and Kato in that in the present invention, a still image recorded with sound is recorded in the same mode containing I pictures, P pictures, or B pictures as motion images recorded with sound, in Hashimoto et al., a still picture recorded with sound is a single JPEG image with an associated audio file.

Riek et al. discloses a camera that encodes still images in an MPEG bitstream. Regarding claim 1, figure 2 illustrates an embodiment of the Riek et al. apparatus. Light is input through lens 12 to CCD 14, which forms images (column 4: lines 15–18). These images are converted to a standard digital format in ISO CCIR601 converter 27 (column 4: lines 35–38). As will be shown below, the images received may be encoded as still images or moving images. A user may switch from recording motion images to recording still images with still select button 22 which causes logic and control unit 32 to encode a still image (column 4: lines 41–50). During a still image mode, a still image stored in frame store 29 from converter 27 is selected for encoding (column 4: lines 41–46), rather than directly from the converter 27. Encoder 30 encodes a still image as a series of zero-motion-vector B frames or an enhanced I frame or P frame followed by a series of B frames, and encoding the first frame at the conclusion of recording the still image as the next I frame (column 9: line 22–column 10: line 41). These B pictures are encoded entirely with skipped macroblocks, which inherently have zero motion vectors, or macroblocks explicitly coded with zero motion vectors. *Riek* at column 10: lines 53–

Art Unit: 2621

65. Such a picture, comprising skipped macroblocks, which are copied from a chronologically preceding picture, and motion-compensated with zero motion vectors, is the claimed "P or B picture data" with 0 motion vectors for a entire frame, copied from a chronologically preceding picture. Then, Riek et al. discloses the claimed second encoding method which may capture both still picture data and moving picture data, each comprising I pictures and P pictures or B pictures.

Hashimoto et al., in combination with Kato, discloses a majority of the claimed invention except for a single encoding method suitable for both still and motion image data. Riek et al. teaches that it was known to encode a sequence of still pictures as MPEG pictures integrated within a motion picture sequence. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the encoder of Kato to record still pictures containing sound as inter pictures as with motion pictures containing sound, as taught by Riek et al., since Riek et al. states in column 3: lines 1–59 that such a modification would allow for high quality still images to be encoded within a motion image at a relatively low bit rate taking advantage of the inter-picture coding techniques of MPEG.

However, while the present invention is directed to multiplexing an encoded picture signal and an encoded audio signal, Hashimoto et al. does not give details of its process of "combining" a video file and an audio file (column 11: lines 34-42).

MPEG-1 Part 1 defines the system coding layer of an MPEG-1 coded data stream, in which audio and video data streams are multiplexed (forward). Regarding claims 11, 35, and 52, Section 1-A.6.3 illustrates a sample multiplexing of a stream

Art Unit: 2621

having one video and one audio stream. The stream is divided into packs, each of which has a header and three packets, each of 2048 bytes. Section 1-A.6.5 illustrates the distribution of frames into the packs, with a first pack typically encoding I, P, and B picture data and a second pack typically encoding P and B picture data in conventional GOP structure and video of average complexity. First, 13 video packets are transmitted to ensure successful buffering. Then, an audio packet is placed for every 6.25 video packets. Section 1-A.6.9 shows an extended sample multiplexed data stream. Here, a second audio packet is placed between the twentieth and twenty-first video packets. However, while in the shown example, one audio packet is placed for multiple video packets, the examiner takes Official Notice that it was known in the art for audio and video packets to be correlated in a 1:1 ratio, as in the "locked audio" of DV, in which one audio pack is present for each frame. See for example European Patent Application Publication 843,470 A1 (*Tanaka*), column 2, lines 34–42. *Tanaka* describes a video signal comprising video data and audio data. In a "lock mode", a number of audio samples are fixed for each frame or a unit of frames. Such a modification would ease linear editing to prevent mismatches between audio and video data streams at a start point or an end point of an edited segment.

Hashimoto et al., in combination with Kato and Riek et al., discloses the claimed invention except for multiplexing an audio and picture signal. MPEG-1 Part 1 teaches that it was known to produce a multimedia datastream by multiplexing packets of audio and video data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the combination of a video and

Art Unit: 2621

audio file in Hashimoto et al. as a multiplexing operation, as taught by MPEG-1 Part 1, since MPEG-1 Part 1 states in the Introduction that such a modification would allow for synchronized playback of audio and video data without having to buffer an entire sub-stream.

Regarding claims 12 and 53, in Kato, "the JPEG standard is used in the still image compression and the MPEG standard is used in the moving image compression" (column 9: lines 12-14).

Regarding claims 14 and 55, figure 12 of Hashimoto et al. shows video files and audio files stored in separate areas of memory card 16.

Regarding claims 15 and 56, in Kato, as mentioned previously, video data is first stored in first memory 20 and then transferred to second memory 22 (column 3: lines 54-63). This corresponds with writing multiplexed data to memory, reading the multiplexed data from memory, and recording multiplexed data on a recording medium. Additionally, in Kato, during the recording of a moving image, a still image from the sequence of moving images may be additionally transferred from the first memory to the second memory as an intra picture in an independent process of the moving picture recording (column 4: lines 1-10). This corresponds with encoding a video signal in the "first" encoding method, writing the signal to the memory, reading the signal from the memory, and recording the signal to the recording medium.

Regarding claims 16 and 57, figure 5 of Kato shows a compressed video encoder including DCT circuit 107, quantizing circuit 108, and variable length coding circuit 115 (column 5: line 60–column 6: line 24).

Regarding claims 17 and 58, figure 12 of Hashimoto et al. illustrates audio and video files stored in the memory as having headers.

Regarding claims 19 and 60, an MPEG-1 pack, containing 3 packets, is designed to have a pack rate of 29 Hz, or 1 frame per pack (Section 1-A.6.3).

Regarding claims 20 and 61, Kato temporarily stores incoming data on first memory 20, and after re-encoding, permanently stores the data on second memory 22 (column 4: lines 45-55, “the second memory 22 is the final storage medium”).

Regarding claims 23 and 64, in Hashimoto et al., image data compression circuit 12 may also perform image decoding (column 6: lines 62-66), and so corresponds with the claimed “video decoding means”. The decoded video signals may be further processed in DSP 11 (column 6: lines 58-61), which outputs a video signal 26 to a display such as an LCD viewfinder (not shown in figure 8). This display corresponds with the claimed “displaying means”. Digital audio signals may also be decoded in audio data compression/expansion circuit, transmitted to D/A converter, amplified and filtered in amplifier 2b, and output in output stream 26 to speaker 32 (column 5: lines 17-39). This corresponds with the claimed “audio outputting means”. This process of reading data stored in memory card 16 (column 7: lines 34-50), like all other processes of the camera of Hashimoto et al., is controlled by CPU 23 (column 7: lines 15-16), which corresponds with the claimed “controlling means”.

Regarding claims 24 and 65, the CCD in Hashimoto et al. has a resolution of 768 x 480 pixels (column 6: line 44), and Kato inputs images at a resolution of 720 x 480 pixels, in accordance with the NTSC standard (column 4: line 15), and produces an output of 320 x 240 pixels (column 4: line 24), in accordance with the CIF format. Although neither Hashimoto et al. nor Kato et al. record pictures at the VGA 640 x 480 pixel standard, it would have been an obvious matter of design choice to modify the image sensing portion of camera of Hashimoto et al. or of Kato to produce 640 x 480 pictures, since it has been held that a change in size of a component is generally recognized as being within the level of ordinary skill in the art. See *In re Rose*, 105 USPQ 237 (CCPA 1955).

Regarding claim 49, in Kato, as shown in figure 1, system control circuit 26 controls both the image compression circuit 18, first memory 20, and second memory 22 (column 3: lines 41-63). This system control circuit corresponds with the claimed "controlling means".

Regarding claims 50 and 67, in Hashimoto et al., incoming image data from a camera is processed in noise reduction circuit 10 and DSP 11 (column 6: lines 40-61), and incoming audio data from a microphone is processed in amplifier/filter 3a (column 6: lines 18-21).

Regarding claims 51 and 68, in Hashimoto et al., figure 14 illustrates the flowchart for transmitting and receiving data from the camera to an external device (column 10: line 41–column 11: line 42). Data from the memory card is transferred to FIFO 13 (column 11: lines 25-29), and transmitted to an external device via interface

Art Unit: 2621

circuit 27 (column 7: lines 1-36). Like every other process in the camera of Hashimoto et al., this process is controlled by CPU 23 (column 7: lines 15-16), which corresponds with the claimed "controlling means".

Regarding claims 69 and 70, in Kato, digital signal processor circuit 14 corresponds with the claimed "first picture encoder" that performs the step of receiving a picture signal. In Hashimoto et al., audio data compression circuit 3 corresponds with the claimed "second encoder" that performs the step of receiving an audio signal. In Kato, image compression circuit 18, as modified by Riek et al., corresponds with the claimed "picture generation" that performs the claimed step of "generating fixed data". In Hashimoto et al., FIFO 13, which combines audio files and image files (column 11: lines 43-61), corresponds with the claimed "third encoder" that performs the claimed step of "multiplexing".

8. Claims 21, 22, 62, and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al. in view of Kato, Riek et al., and MPEG-1 as applied to claims 11 and 52 above, and further in view of US Patent 6,327,423 B1 (Ejima et al.). Claims 21, 22, 62, and 63 are directed to specific operations of causing a camera to perform an audio capture for a certain time. Hashimoto et al. teaches taking pictures when a shutter button is pressed (column 7: lines 20-24), Kato teaches operating a keyboard to issue image taking commands (column 3: lines 41-53), and Riek et al. teaches recording a still image while a still select button is depressed (column 4: lines

Art Unit: 2621

41–50). However, the above references do not teach operation for a time period to encode audio data.

Ejima et al. teaches a camcorder that records sound data. Regarding claims 21 and 62, figure 14 is a flowchart illustrating one embodiment of the sound recording control process of Ejima et al. At step S1, CPU 39 determines if a release switch 10 is pressed, and if it is, the image recording process begins at step S2 (column 15: line 64–column 16: line 3). At step S3, the sound recording process is started, and at step S4, a "REC" display is shown on a viewfinder to indicate that sound is being recorded (column 16: lines 4-11). At step S5, after 10 seconds have passed, the sound recording process stops (column 16: lines 11-16, 34-40). However, if a sound recording switch is pressed within 10 seconds at step S6, sound recording continues (column 16: lines 14-23, 44-50). The sound recording then ends when the sound recording switch is released at step S20 (column 16: lines 23-50). Then, sound recording switch 12 corresponds with the claimed "operating means", and the time period in which the sound recording switch is pressed corresponds with the claimed "timing means".

Hashimoto et al., in combination with Kato, Riek et al., and MPEG-1, discloses the claimed invention except for encoding audio during the pressing of an operation means. Ejima et al. teaches that it was known to perform sound recording while a sound recording switch is pressed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the sound recording switch of Ejima et al. into the camera of Hashimoto et al. or Kato, since Ejima et al. states in column 1: line 60–column 2: line 20 that such a modification would

Art Unit: 2621

allow the timing of a sound recording to be independent of the timing of its associated video recording.

Regarding claims 22 and 63, in Kato, if sound recording switch 12 is not pressed, then release switch 10 corresponds with the claimed "operating means", and the ten seconds is the "predetermined time period" in which audio is encoded.

Conclusion

9. This Office action is non-final due to the new supporting reference.

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. "DVCPRO: A Comprehensive Format Overview" (*Uchida*), published July 1996, mentions locked audio.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David N. Werner whose telephone number is (571)272-9662. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Art Unit: 2621

published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. N. W./
Examiner, Art Unit 2621

/Dave Czekaj/
Primary Examiner, Art Unit 2621